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Compugen Ltd

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Result
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Maximum Match 10
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Perfect score:
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    score greater than or equal to the score of the result being and is derived by analysis of the total score distribution.
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length: 2000000000
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 US-09-331-631A-38
53
1 CXXXCXXXXXXXXXXX
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E44007
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cygnin - black swa
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ALIGNMENTS

C;Species: Bos primigenius taurus (cattle)
C;Date: 05-Apr-1995 #sequence_revision 05-Apr-1995 #text_change 07-May-1999
C;Accession: A38933; A32200; S2231; S15978
R;Hayman, E.G.; Pierschbacher, M.D.; Suzuki, S.; Ruoslahti, E.
Exp. Cell Res. 160, 245-258, 1985
A;Title: Vitronectin-a major cell attachment-promoting protein in fetal bov A; Reference number: A38933; MUID:86005161

in fetal bovine

serum

vitronectin - bovine (fragment)

R;Mimuro, J.; Loskutoff, D.J. J. Biol. Chem. 264, 936-939, 1989 A;Title: Purification of a protein from bovine plasma that binds to

type 1 plasminoge

A; Molecule type: protein A; Residues: 1-30 < HAY>

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A;Molecule type: protein
A;Molecule type: protein
A;Residues: 1-4,'x',6-8,'x',10-18,'x',20,'x',22-24,'x',26-28 <MIM>
A;Residues: 1-4,'x',6-8,'x',10-18,'x',20,'x',22-24,'x',26-28 <MIM>
R;Nakashima, N.; Miyazaki, K.; Ishikawa, M.; Yatchgo, T.; Ogawa, H.; Uchibori, H.; Ma
Biochim. Biophys. Acta 1120, 1-10, 1992
B;Title: Vitronectin diversity in evolution but uniformity in ligand binding and size
A;Title: vitronectin diversity in evolution but uniformity in ligand binding and size
A;Reference number: S21768; MUID:92207982
A;Accession: S22231
A;Accession: S22231
                                                                                                                                                                                                                                                                                 A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-4,'X' <SEI>
                                                                                                                                                                                                                                                                                                                                                                                                                                    R:Seiffert, D.; Loskutoff, D.J.
Biochim. Biophys. Acta 1078, 23-30, 1991
A;Title: Kinetic analysis of the interaction
g
                                              Qy
                                                                                                                                                                                                                             C;Superfamily: vitronectin; hemopexin repeat homology;
C;Keywords: cell adhesion; heparin binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Reference number: A32200; MUID:89093166
A;Accession: A32200
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                                                                                                                                                                                                                                                                                                                                                                                                                 of bovine vitronectin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: protein
A; Residues: 'X', 2-4,'X', 6-8,'X', 10-18,'X', 20,'X' <NAK>
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CKGRCTEGFXATRKCQCDELC 25
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1.3e+02;
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RESULT

0;

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A; Accession. A; Accession A; Molecule type; protein A; Molecule type; protein A; Residues: 1-39 <SIM> C; Comment: Cygnin shows some similarity to the amino-terminal fragment of the carboxyl-t C; Superfamily; cygnin C; Keywords: blocked amino end; egg white C; Keywords: blocked amino end (Gin) (probably pyrrolidone carboxylic acid) #statue.
cygnin - black swan
C:Species: Cygnus atratus (black swan)
C:Date: 18-Apr-1984 #sequence_revision
C:Accession: A03258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               E44007
aptotoxin III - trap-door spider (Aptostichus sp.)
N;Alternate names: insecticidal peptide Aps III
                                                                                            A;Reference number: JX0070;
A;Accession: JX0070
A;Molecule type: protein
A;Residues: 1-40 <ODA>
                                                                                                                                                                                                                             N;Alternate names: cygnin homolog
C;Species: Meleagris gallopavo (common
C;Date: 30-Jun-1992 #sequence_revision
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C; Keywords: disulfide bond; toxin; venom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Cross-references: PIDN:AAB24051.1; PID:g259281
A;Note: the source is designated as Aptostichus schlingeri
A;Note: sequence extracted from NCBI backbone (NCBIP:119526)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Title: Identification of insecticidal peptides from venom of the trap-door spider, Apt A;Reference number: A44007; MUID:93069259
A;Accession: E44007
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C;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 20-Aug-1999
                                                                                                                                                                                                                                                                                   meleagrin - turkey
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A;Accession: A03258
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Toxicon 30, 1043-1050, 1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         November 1982
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R:Lerch, K.; Ammer, D.; Olafson, R.W.
J. Biol. Chem. 257, 2420-2426, 1982
A;Title: Crab metallothionein. Primary structures
A;Reference number: A92363; MUID:82142340 metallothionein 2 - mud crab
C:Species: Scylla serrata (mud crab)
C:Date: 19-Feb-1984 #sequence_revision 19-Feb-1984 #text_change 13-Sep-1996 A;Gene: Mst84Dc
A;Gross-references: FlyBase:FBgn0004174
A;Map position: 3
C;Superfamily: fruit fly testis-specific p
C;Keywords: spermatogenesis; tandem repeat 밁 οy A; Molecule type: protein A; Residues: 1-57 < LER> C; Superfamily: metallothionein C; Keywords: metal binding A;Reference number: A92363; A;Accession: A03284 C; Accession: A03284 B Qy A; Note: sequence C; Genetics: A;Cross-references: EMBL:X67703; NID:g11072; PIDN:CAA47939.1; PID:g11075 A;Note: the authors translated the codon TGC for residue 55 as Thr A;Note: sequence extracted from NCBI backbone (NCBIN:74217, NCBIP:74222) R;Kuhn, R.; Kuhn, C.; Boersch, D.; Glaetzer, K.H.; Schaefer, U.; Schaefer, M. Mech. Dev. 35, 143-131, 1991 A;Title: A cluster of four genes selectively expressed in the male germ line A;Reference number: A56565; MUID:92102953 testis-specific protein Mst84Dc - fruit fly (Drosophila melanogaster) C;Species: Drosophila melanogaster
C;Species: Drosophila melanogaster
C;Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 20-Aug-1999
C;Accession: S25774; C56565
R;Kuhn, R.; Kuhn, C; Boersch, D.; Glaetzer, K.H.; Schaefer, U.; Schaefer, I В SMKD2S Qy RESULT A; Molecule type: DNA A; Residues: 1-55 < KUH> A; Accession: S25774 F;12-28/Disulfide Query Match Best Local Query Match Best Local Matches Matches Matches Query Match Best Local Local Similarity 19.0 hes 4; Conservative Local Similarity 19.0 hes 4; Conservative 33 12 1 CXXXCXXXXXXXXXXXXXX 21 N 1 CXXXCXXXXXXXXXXXXXXX 21 1 CXXXCXXXXXXXXXXXXXX 21 σ CSSKCSKAEVWAYSPDCKVHC CCGPCGSCCGYYCCGPCCGPC Similarity Conservative bonds: 100.0%; 19.0%; #status experimental 100.0%; 100.0%; 17; 17; 53 22 Score 53; DB 1; L Pred. No. 1.8e+02; Pred. No. 1.8e+02; Pred. No. 1 Score 53; DB 2; . Pred. No. 1.7e+02; Score 53; DB 2; red. No. 1.5e+02; Mismatches 0; protein of Length 57; metallothioneins 1 and Length 55; Length 40; Indels Indels Indels the male germ line of Droso 0; 0 0 Gaps Gaps Gaps

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RESULT S59073

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metallothionein isoform IIa - blue crab
C;Species: Callinectes sapidus (blue cra
C;Date: 19-Mar-1997 #sequence_revision 'C;Accession: C;Accession: 
                                                                                                                                                                                                                                            metallothionein isoform Ia - blue crab)
C:Species: Callinectes sapidus (blue crab)
C:Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 07-May-1999
C:Accession: S59072
R:Brouwer, M.: Enghild, J.: Hoexum-Brouwer, T.: Thogersen, I.: Truncali, A.
Biochem. J. 311, 617-622, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    metallothionein 1 - mud crab
(:Species: Scylla serrata (mud crab)
(:Date: 29-Jul-1981 #sequence_revision 29-Jul-1981
(:Accession: A03283
R;Lerch, K.; Ammer, D.; Olafson, R.W.
J. Biol. Chem. 257, 2420-2426, 1982
A;Title: Crab metallothionein. Primary structures
A;Reference number: A92363; MUID:82142340
A;Accession: A03283
                                                                                                                       A;Title: Primary structure and tissue-specific A;Reference number: S59072; MUID:96033062 A;Accession: S59072 A;Molecule type: protein A;Residues: 1-58 <BRO> C;Superfamily: metallothionein C;Keywords: metal binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Molecule type: protein
A; Residues: 1-58 < LER>
A; Note: the five Cys-X-Cys sequences
C; Superfamily: metallothionein
C; Keywords: metal binding
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A;Title: Primary structure and tissue-specific expression of blue crab (Callinectes A;Reference number: S59072; MUID:96033062
A;Accession: S59073
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S59072
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19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 07-May-1999
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                                  Similarity 4; Conserv
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4; Conser
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19.0%; Pr
ative 17;
                                                   100.0%;
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                                                   Score 53;
Pred. No. 1
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Pred. No. 1.8e+02;
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1.8e+02;
0;
                                DB 2; 1
1.8e+02;
nes 0;
                                                                                                                                                                                                                             expression of blue crab (Callinectes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
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                                                                 Length 58;
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                                0;
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                                0;
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C;Species: Drosophila melanogaster
C;Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 20-Aug-1999
C;Accession: S25772; A56565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C;Superfamily: metallothionein
C;Keywords: metal binding; chelation; metal-thiolate cluster
F;6,12,17,21,28/Binding site: transition metal ions (Cys) #status predicted
F;31,38,46,47,54,56,57/Binding site: transition metal ions (Cys) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Pedersen, K.L.; Pedersen, S.N.; Hojrup, P.; Andersen, J.S.; Roepstorff, P.; Knudsen Biochem. J. 297, 60-614, 1994
A;Title: Purification and characterization of a cadmium-induced metallothionein from A;Reference number: S43367; MUID:94153337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT
S43367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Molecule type: protein
A; Residues: 1-58 <BRO>
C; Superfamily: metallothionein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           metallothionein 1 - American lobster
C:Species: Homarus americanus (American lobster)
C:Date: 31-Jan-1992 #sequence_revision 31-Jan-1992 #text_change 12-Apr-1995
                        A; Molecule type: DNA
A; Residues: 1-63 < KUH>
                                                                 A; Reference number: A56565; A; Accession: S25772
                                                                                                         Mech. Dev. 35, 143-151, 199
A; Title: A cluster of four
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: protein A; Residues: 1-58 < PED>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Reference number: A; Accession: S43367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Species: Carcinus maenas (green crab, common shore crab)
C;Date: 19-Mar-1997 #sequence_revision 01-Feb-1999 #text_c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Title: Structural and functional diversity of copper-metallothioneins from the Amer A; Reference number: A37039; MUID:89215793
A; Accession: A37039
                                                                                                                                  R;Kuhn, R.; Kuhn, C.; Boersch, D.; Glaetzer, Mech. Dev. 35, 143-151, 1991
                                                                                                                                                                                                                                                                  S25772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Note: the sequence from Fig. 4 is inconsistent with that from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C; Accession:
    A; Cross-references:
                                                                                                                                                                                                                                       testis-specific protein Mst84Da - fruit fly (Drosophila melanogaster)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          metallothionein - green crab
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C; Accession: A37039
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Best Local
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Best Local 9
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EMBL: X67703; NID: g11072; PIDN: CAA47937.1; PID: g11073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     289-303, 1989
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19.0%; F
                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Score 53; 19.0%; Pred. No. 1
                                                                                                              genes
                                                                                       genes selectively
MUID:92102953
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                                                                                                                                                    K.H.; Schaefer, U.; Schaefer, M.
                                                                                                           expressed
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1.8e+02;
nes 0;
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l.8e+02;
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from NCBI backbone (NCBIN:74219, NCBIP:74224)

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R:Mehra, R.K.; Garey, J.R.; Butt, T.R.; Gray, W.R.; Winge, D.R.
J. Biol. Chem. 264, 19747-19753, 1989
A:Title: Candida glabrata metallothioneins. Cloning and sequence of the genes and characa A:Reference number: A92737; MUID:90062075
A:Accession: A34484
Вb
                                     QΥ
                                                                                                                                                                                                                 A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 1-66 GGRA>
A;Cross-references: EMBL:U42580; NID:g4028896; PIDN:AAC97026.1
A;Experimental source: specific host Chlorella strain NC64A
                                                                                                                                                                                                                                                                                                                    C;Accession: T18117
R;Graves, M.V.; Van Etten, J.L.
submitted to the EMBL Data Library, May 1999
A;Reference number: Z18806
A;Accession: T18117
                                                                                                                                                                                                                                                                                                                                                                                                                 hypothetical protein a615R - Chlorella virus PBCV-1
C;Species: Chlorella virus PBCV-1
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Molecule type: DNA A; Residues: 1-63 <MEH> A; Residues: 1-63 <MEH> A; Residues: 1-63 <MEH> A; Residues: 1-63 <MEH> A; Ross-references: GB:J05133; NID:g173321; PIDN:AAA35272.1; PID:g173322 A; Note: the authors translated the codon GAG for residue 61 as Asp C; Superfamily: metallothionein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C;Species: Candida glabrata
C;Date: 07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change 20-Aug-1999
C;Accession: A34484
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C;Keywords: spermatogenesis; tandem repeat
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C; Genetics:
A; Gene: Mst84Da
A; Cross-references: FlyBase: FBgn0004172
A; Map position: 3
A; Introns: 13/3
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Best Local S
Matches 4
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Best Local Similarity 19.v
Conservative
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Best Local Similarity
                                                                              Matches
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28 CLGTCLGTYLGLRLGTCLGTC
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                                       1 CXXXCXXXXXXXXXXXXXXX 21
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                                                                              Conservative
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19.0%; Pr
vative 17;
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19.0%;
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48
                                                                        s; Score 53; DB 2; Le
; Pred. No. 1.9e+02;
rramatches 0;
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Pred. No. 1.9e+02;
Pred. No. 1.9e+02;
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Pred. No. 1.9e+02;
""matches 0;
                                                                                                                 Length 66;
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A;Cross-references: FlyBase:FBgn0004175
A;Map position: 3
C;Superfamily: fruit fly testis-specific protein
C;Keywords: spermatogenesis; tandem repeat
                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: EMBL:x67703; NID:gl1072; PIDN:CAA47940.1; PID:gl1076 A;Note: sequence extracted from NCBI backbone (NCBIN:74217, NCBIP:74223) C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      R;Kuhn, R.; Kuhn, C.; Boersch, D.; Glaetzer, K.H.; Schaefer, U.; Schaefer, M. MeCh. Dev. 35, 143-151, 1991
A;Title: A cluster of four genes selectively expressed in the male germ line of Droso A;Reference number: A56565; MUID:92102953
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C;Species: Drosophila melanogaster
C;Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 20-Aug-1999
C;Accession: S25775; D56565
Search completed:
Job time: 321 sec
                                                                                                               В
                                                                                                                                                      γQ
                                                                                                                                                                                                                                                                                                                                                                                                     A; Gene: Mst84Dd
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A; Residues: 1-68 < KUH>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Accession: S25775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               testis-specific protein Mst84Dd - fruit fly (Drosophila melanogaster)
                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 4; Conserv
                                                                                                                 9
                                                                                                                                                        1 CXXXCXXXXXXXXXXXXXXXXX 21
                                                                                                               CCGPCGPCCGPCCGPCCGPCC
                                                                                                                                                                                                  Conservative
                       March
                       1,
                                                                                                                                                                                                                     100.0%;
                       2001, 16:20:13
                                                                                                                                                                                                  17;
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Pred. No. 2e+02;
                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                            DB 2;
                                                                                                                                                                                                  0;
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